

<110> Rosen et al.

<120> 36 Human Secreted Proteins

<130> PZ022P1

<140> Unassigned

<141> 1999-07-07

<150> ECT/US99/00108

<151> 1999-01-06

<150> 60/070,567

<151> 1998-01-07

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<151> 1998-01-07

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<160> 196

<170> PatentIn Ver. 2.0

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<211> 733

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<213> Homo sapiens

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<213> Homo sapiens

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gataaagatt tctctgaaaa aaagaagcat gtcagggaatc tctgggtgcc cctttttcct
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 <223> n equals a,t,g, or c

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 aatggaggcc atagtgttca tctttctctc ttgacaggct ctaggacaaa caatgagcaa 180
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<211> 831
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<210> 19
 <211> 613
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (502)
 <223> n equals a,t,g, or c
 <220>
 <221> SITE
 <222> (503)
 <223> n equals a,t,g, or c

<220>
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<220>
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 <222> (507)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (508)
 <223> n equals a,t,g, or c

<400> 19
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 ttgtttttat ttatccggg ttcatTTTTT actcttccca tgtacatgaa acaggtgtgtg 180
 gctgttagag atcagctgat ccttgtttta tggttaatgt aactactttg taccagggt 240
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 ccactttagt tttccacaat tttaaatctt aatagtga atccaaatga aagtcatttc 360

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aggtgtgggt	gctcacacct	gtaatccacg	cacttttggg	ggctgaggcg	ggcggatcac	540
ctgagctcac	gagtttgaga	ccagcctacc	caacatggta	aaaccccatc	tctacaaaaa	600
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<210> 20
 <211> 571
 <212> DNA
 <213> Homo sapiens

<400> 20						
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accgggtgac	tttgccctgt	ctgtactcat	cctggctcca	caacagcaac	agcatgtgct	180
gggggaaaga	ccagtgtccc	tactccggtt	gcaaggaggc	gctcatccgc	actgatgtgaa	240
tgagggtgac	ctcaagaaag	tcagcaaaat	atagacttca	ggggactatc	ccgagaggtg	300
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tagaagtgtc	tggtgtggct	aacgatgtaa	agataaacgt	gcgctggaat	ctacagagag	420
cctcaacaac	cacgcacaga	acagcaacca	ccaccacacg	cagaacaaca	acaacaagcc	480
ccaccaccac	ccgacaaaat	acaacaaccc	cagctgcact	tccaacaacc	aaaaaaaaaa	540
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	a			571

<210> 21
 <211> 2024
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (540)
 <223> n equals a,t,g, or c

<400> 21						
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gtgtgtgttt	tcatttgaat	atgctctact	tctgctctag	tatttgggtt	ggaataatatt	180
tttgggtcct	aattactgta	tttttaaaaa	ccctacctcc	attaacagtt	ggtaaaagcc	240
ccctttcagg	aaagtgtgtt	gttttttttt	tttttttttt	ggaaaagctg	ctctttgtca	300
gtatagctgt	ttgaaaagtg	acatagtaac	aaatacttta	aaaaataaag	atacacaatt	360
tatatattgaa	aataaaaaact	ttctgtctgt	gggattatbt	atagtccctt	attttttaaa	420
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catttaggca	ctagcatttta	gaaaaatacc	aatcacagtg	atgcttttgt	tatttaatat	600
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tggtctgtgt	atacataatg	gttgatgaac	atatatttgc	ttaaatcac	aataggagtg	720
gctgtaaaat	aaatagatca	ttggttcaac	catttaagt	tttttgcag	attgtcaatg	780
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cagtcacaata	aagtatggtt	aagtctgttt	tgcatctttc	ttttagatac	agctgtgtgc	1980
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<210> 22
 <211> 575
 <212> DNA
 <213> Homo sapiens

<400> 22						
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gggcactgag	atgagaagct	gcttgaggca	tgatggtccc	atccccctgc	ctccaggggc	240
tcaaaatact	ttatagttta	caaagtggtt	tcacatgcaa	tttctgtgag	tggtgggtgcc	300
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ttctttctct	gttagttctt	ctttttctct	ttctctttct	ttctttctct	ctttttctct	480
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<210> 23
 <211> 1181
 <212> DNA
 <213> Homo sapiens

<400> 23						
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cagattttcga	caagataca	caggagactc	tggtgtctgt	cgctgattac	cttcccgcca	360
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<210> 24
 <211> 2290
 <212> DNA
 <213> Homo sapiens

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 <222> (146)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (525)
 <223> n equals a,t,g, or c

<220>
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 <222> (2196)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2254)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2256)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2274)
 <223> n equals a,t,g, or c

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 acacattccc tctctaggcc actgtattgc ttctctaggg catcttctta taagacacca 600
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ggacacagca						2290

<210> 25
 <211> 891
 <212> DNA
 <213> Homo sapiens

<400> 25						
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ctccatgata	aaagatcca	agtggagccc	tgccacagcc	tgtgggtagg	ggatgcggcg	120
ggatcctcat	tgccatggta	ctcaaaaggta	gaagagcctg	gagtttgggtg	ctctctctttg	180
ctattctctc	atatctctct	ggggcctggg	attcaattagc	aatctctcat	ccctccagcc	240
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aaaatcccaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	a	891

<210> 26
 <211> 465
 <212> DNA
 <213> Homo sapiens

<400> 26						
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<210> 27
 <211> 783

<212> DNA
<213> Homo sapiens

<400> 27
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 agttctccca taggaaataa agcatgtgaa agggtaaaaa aaaaaaaaaa aaaaaaacac 780
 gag 783

<210> 28
<211> 470
<212> DNA
<213> Homo sapiens

<400> 28
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 gctgcacacg tccagggatc ctgtctcttc cttctctttg taagagtgtc ccagcctcct 420
 gtccctctaca ctgacacca atctgtccat ggtgtgtact ccagcctctg 470

<210> 29
<211> 1321
<212> DNA
<213> Homo sapiens

<400> 29
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<210> 30
 <211> 620
 <212> DNA
 <213> Homo sapiens

<400> 30						
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	600
aaaaaaaaaa	aaaaaaaaaa					620

<210> 31
 <211> 1222
 <212> DNA
 <213> Homo sapiens

<400> 31						
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<210> 32
 <211> 829
 <212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (772)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (829)

<223> n equals a,t,g, or c

<400> 32

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<210> 33

<211> 1336

<212> DNA

<213> Homo sapiens

<400> 33

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aagagtgtta	cttctccgtt	aacctacgct	tcgtgttaac	cttcagggtg	gaagtgtgat	480
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tcacagtgtg	cttaaggtat	gggtgagagt	aactgtgctt	ggaaatagaa	agccctgctg	1080
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aacaacctta tgcacccggg gaaaaaatca caataaatat ttattcagtg ttaaaaaaaa 1320
aaaaaaaaa aaaaaa 1336

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<210> 34
<211> 1635
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (85)
<223> n equals a,t,g, or c

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<400> 34
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gaaggacgcy gccgc 1635

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<210> 35
<211> 1264
<212> DNA
<213> Homo sapiens

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<400> 35
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ggcccgccgt gccctccccg gggatggctg gcaactgtgt cggagtcggt cggggcgtgt 360

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cgag						1264

<210> 36
 <211> 688
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (607)
 <223> n equals a,t,g, or c

<400> 36						
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<210> 37
 <211> 1516
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (34)
 <223> n equals a,t,g, or c

<400> 37						
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<210> 38
 <211> 1267
 <212> DNA
 <213> Homo sapiens

<400> 38						
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aaaaaaa						1267

<210> 39
 <211> 2203
 <212> DNA
 <213> Homo sapiens

<220>

<221> SITE
 <222> (1246)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1846)
 <223> n equals a,t,g, or c

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 1368

<210> 55
 <211> 1446
 <212> DNA
 <213> Homo sapiens

<400> 55
 ccacgcgtcc gagcaaccgc agctttctagt atccagactc cagcgcgcgc ccggggcgagg
 60
 accccaaccc cgacccagag cttctccagc ggcggcgccac gagcagggct ccccgccctta
 120
 acttctctccg cggggcccag ccaccttcgg gagtccgggt tgcaccctg caactctctc
 180
 gcctttctga cctgccaccc ctgagccagc ggcggcgccc gagcagatca tggccaacgc
 240
 gggggtgcag ctgttgggct tcattctctc ctctctggga tggatcggcg ccattcgtcag
 300
 cactgccttg cccagtgga ggatttactc ctatgcggc gacaacatcg tgacgcccag
 360
 gccatgtacg aggggctctg gatgtctctc ggtctgcaga gcaccgggca gatccagtcg
 420
 aaagtctttg actccttgct gaattctgag agcacattcg aagcaaccgc tgctctgagt
 480
 gtggctggca tctctctggg agtgatagca atctttgtgg ccaccgttgg catgaagtgt
 540
 atgaagtgtc tggagaagca tgaggtgcag aagatgagga tggctgtcat tggggggcgcg
 600
 atatttcttc ttgcaggctc ggctatttta gttgccacag catggtatgg caatagaatc
 660
 gttcaagaat tctatgaccc tatgacccca gtcaatgcca ggtacgaatt tggtcaggct
 720
 ctcttcactg gctgggctgc tgcctctctc tgccttctgg gaggtgcctt actttgctgt
 780
 tcctgtcccc gaaaaacaac ctcttaacca acaccaaggc cctatccaaa acctgcacct
 840
 tccagcggga aagactacgt gtgacacaga ggcaaaagga gaaaatcatg ttgaaacaaa
 900
 ccgaaaatgg acattgagat actatcatta acattaggac cttagaattt tgggtattgt
 960
 aatctgagta tgggtatfaca acaacaaaca aacaaaaaac ccattgtgta aaatactcag
 1020
 tgctaaacat ggcttaatat tattttatct tctttctcct atataggagg gaagattttt
 1080
 ccatttgtat tactgtcttc cattgagtaa tcatactcaa atgggggaag ggggtgctct
 1140
 taaatatata tagatatgta tatatacatg tttttctatt aaaaatagac agtaaaaatc
 1200
 tattctcatt atgttgatac tagcatactt aaatatcttc taaaatagct aaatgtattt
 1260
 aattccatat tgatgaagat gtttattggt atattctctt tttctgctct atatacatat
 1320

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gtaacagtc aataatcattt actttttttt attagctttt ggtgctttt ccacaagacc
 1380
 tagcttaatt taccaaggat gaattttttt aatttttcat gcgtgcccag caaaaaaaaa
 1440
 aaaaaa
 1446

<210> 56
 <211> 143
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (143)
 <223> Xaa equals stop translation

<400> 56
 Met Ser Gly Ile Ser Gly Cys Pro Phe Phe Leu Trp Gly Leu Leu Ala
 1 5 10 15
 Leu Leu Gly Leu Ala Leu Val Ile Ser Leu Ile Phe Asn Ile Ser His
 20 25 30
 Tyr Val Glu Lys Gln Arg Gln Asp Lys Met Tyr Ser Tyr Ser Ser Asp
 35 40 45
 His Thr Arg Val Asp Glu Tyr Tyr Ile Glu Asp Thr Pro Ile Tyr Gly
 50 55 60
 Asn Leu Asp Asp Met Ile Ser Glu Pro Met Asp Glu Asn Cys Tyr Glu
 65 70 75 80
 Gln Met Lys Ala Arg Pro Glu Lys Ser Val Asn Lys Met Gln Glu Ala
 85 90 95
 Thr Pro Ser Ala Gln Ala Thr Asn Glu Thr Gln Met Cys Tyr Ala Ser
 100 105 110
 Leu Asp His Ser Val Lys Gly Lys Arg Arg Ser Pro Gly Asn Arg Ile
 115 120 125
 Leu Ile Ser Gln Thr Arg Met Glu Met Ser Asn Tyr Met Gln Xaa
 130 135 140

<210> 57
 <211> 51
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals stop translation

<400> 57
 Met Ala Leu Met Trp Ser Leu Trp Tyr Phe Asn Ser Val Phe Ile Ile

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<400> 59

Met Ser Cys Ile Gly Arg Met Arg Leu Ile Cys Phe Ile Ile Leu Arg
 1 5 10 15

Ile Cys Gly Leu Glu His Leu Phe Gly Asn Met Gly Leu Gly Xaa Lys
 20 25 30

Asn Gly His Leu Pro Gly His Tyr Gly His Ser Leu Glu Phe Phe Xaa
 35 40 45

<210> 60

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals stop translation

<400> 60

Met Ile Leu Leu Leu Ser Leu Phe Gln Gly Val Arg Gly Ser Leu Gly
 1 5 10 15

Ser Pro Gly Asn Arg Glu Asn Lys Glu Lys Lys Val Phe Ile Ser Leu
 20 25 30

Val Gly Ser Arg Gly Leu Gly Cys Ser Ile Ser Ser Gly Pro Ile Gln
 35 40 45

Lys Pro Gly Ile Phe Ile Ser His Val Lys Pro Gly Ser Leu Ser Ala
 50 55 60

Glu Val Gly Leu Glu Ile Gly Asp Gln Ile Val Glu Val Asn Gly Val
 65 70 75 80

Asp Phe Ser Asn Leu Asp His Lys Glu Leu Gln Leu Ala Gly Ser Cys
 85 90 95

Ser Xaa

<210> 61

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals stop translation

<400> 61

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37

Met Trp Phe Arg Cys Phe Leu Leu Ile Phe Val Ser Ser Val Thr Leu
1 5 10 15

Thr Gly Asp Phe Arg Asn Met Lys Lys Pro Ser Ser Leu Cys Leu Phe
20 25 30

Arg Gln Gly Leu Met Ser Ala Ser Glu Val Ser Gly Ser Gly Ser Gly
35 40 45

Glu Gly Asp Xaa
50

<210> 62
<211> 52
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals stop translation

<400> 62
Met Tyr Cys Leu Cys Gly Leu Leu Leu Gln Ala Leu Leu Arg Leu Cys
1 5 10 15

Asn Gly Tyr Lys Thr Gln Lys Asn His Arg Glu Leu Arg Met Cys Gly
20 25 30

Ile Ile Ala Gln Gly Lys Ser Arg Trp Gln Leu His Cys Tyr Pro Gly
35 40 45

Met Lys Ser Xaa
50

<210> 63
<211> 71
<212> PRT
<213> Homo sapiens

<400> 63
Met Leu Pro Leu Lys Ile Ala Ala Pro Tyr Leu Leu Glu Asn Cys Ser
1 5 10 15

Cys Pro Ile Tyr Ile Ser Thr Ser Pro His Leu Phe Leu Ser Thr Met
20 25 30

Phe Val Phe Leu Ser Val Leu Tyr Ser Leu Ser Leu Glu Tyr Met Phe
35 40 45

Leu Phe Val Phe Gly Lys Lys Ile Ser Phe Thr Ser Leu His Ser Asp
50 55 60

Gln Leu Gly Lys Lys Lys Ala
65 70

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<210> 64
 <211> 42
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals stop translation

<400> 64
 Met Tyr Met Lys Gln Val Val Ala Cys Arg Asp Gln Leu Ile Leu Val
 1 5 10 15
 Leu Trp Leu Ile Glu Leu Leu Cys Ile Gln Gly Phe Cys Lys Ser Lys
 20 25 30
 Ser Asp Phe Ser Ser Arg Ile Tyr Ser Xaa
 35 40

<210> 65
 <211> 183
 <212> PRT
 <213> Homo sapiens

<400> 65
 Met Ser Lys Glu Pro Leu Ile Leu Trp Leu Met Ile Glu Phe Trp Trp
 1 5 10 15
 Leu Tyr Leu Thr Pro Val Thr Ser Glu Thr Val Val Thr Glu Val Leu
 20 25 30
 Gly His Arg Val Thr Leu Pro Cys Leu Tyr Ser Ser Trp Ser His Asn
 35 40 45
 Ser Asn Ser Met Cys Trp Gly Lys Asp Gln Cys Pro Tyr Ser Gly Cys
 50 55 60
 Lys Glu Ala Leu Ile Arg Thr Asp Gly Met Arg Val Thr Ser Arg Lys
 65 70 75 80
 Ser Ala Lys Tyr Arg Leu Gln Gly Thr Ile Pro Arg Gly Asp Val Ser
 85 90 95
 Leu Thr Ile Leu Asn Pro Ser Glu Ser Asp Ser Gly Val Tyr Cys Cys
 100 105 110
 Arg Ile Glu Val Pro Gly Trp Phe Asn Asp Val Lys Ile Asn Val Arg
 115 120 125
 Leu Asn Leu Gln Arg Ala Ser Thr Thr Thr His Arg Thr Ala Thr Thr
 130 135 140
 Thr Thr Arg Arg Thr Thr Thr Thr Ser Pro Thr Thr Thr Arg Gln Met
 145 150 155 160
 Thr Thr Thr Pro Ala Ala Leu Pro Thr Thr Lys Lys Lys Lys Lys Lys
 165 170 175

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Lys Lys Lys Lys Lys Lys Lys
180

<210> 66
<211> 58
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (58)
<223> Xaa equals stop translation

<400> 66
Met Leu Tyr Phe Cys Ser Ser Ile Trp Phe Gly Ile Tyr Phe Val Ala
1 5 10 15

Leu Ile Thr Val Phe Leu Lys Thr Leu Pro Pro Leu Thr Val Gly Lys
20 25 30

Gly Pro Phe Ser Gly Lys Phe Val Ala Phe Phe Phe Phe Leu Lys Glu
35 40 45

Ser Cys Ser Leu Leu Ser Ile Val Phe Xaa
50 55

<210> 67
<211> 100
<212> PRT
<213> Homo sapiens

<400> 67
Met Gln Phe Cys Glu Leu Trp Val Pro Leu Leu Ser Thr Leu Leu Asn
1 5 10 15

Thr Trp Gln Asn Leu Thr Leu Gly Cys Pro Ser Pro Asp Ser Lys Ser
20 25 30

Lys Ser Ser Pro Asp Pro Arg Ala Cys Pro Leu Phe Pro Ser Phe Leu
35 40 45

Ser Phe Phe Leu Val Ser Ser Phe Phe Phe Phe Phe Ser Phe Phe Phe
50 55 60

Leu Ser Leu Ser Phe Phe Leu Pro Phe Phe Phe Leu Phe Ser Phe Phe
65 70 75 80

Leu Ser Leu Ser Leu Ser Phe Phe Gln Asp Pro Val Gln Lys Lys Lys
85 90 95

Lys Lys Thr Arg
100

<210> 68
<211> 74

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<212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (74)
 <223> Xaa equals stop translation

<400> 68
 Met Phe Tyr Leu Tyr Ser Ile Phe Gln Val Leu Val Trp Leu Cys Gln
 1 5 10 15
 Ala Lys His Leu Ser Gln Ile Ser Ala Arg Ser Ser Arg Arg Leu Trp
 20 25 30
 Arg Leu Ser Leu Ile Thr Phe Pro Pro Tyr Leu Ala Thr Ser Leu Ser
 35 40 45
 His Gly Pro His Val Cys Leu Gln Thr Leu Gly Tyr Glu Ser Cys Glu
 50 55 60
 His Thr Asp Leu Cys Phe Leu His Asp Xaa
 65 70

<210> 69
 <211> 137
 <212> PRT
 <213> Homo sapiens

<400> 69
 Met Met Phe Ala Gly Ser Cys Gly Phe Pro Ala Gln Pro Ala Thr Thr
 1 5 10 15
 Gly Pro Cys Gly Tyr Val Val Gln Pro Asn Thr Thr Gly Pro Phe Leu
 20 25 30
 Tyr Val Arg Gln Phe Tyr Pro Ala Arg His Leu Trp Thr Pro Ser Pro
 35 40 45
 Val-Cys Lys Pro Ser Ile Lys Pro His Val Ser Phe Ala Gly Ser Gly
 50 55 60
 Ser Leu Trp Arg Leu Glu Pro Tyr Ala Phe Pro Ile Glu Val Asn Arg
 65 70 75 80
 Gly Ser Ala Gln His Trp Val Pro Gly Met Gln Pro Cys Leu Phe Met
 85 90 95
 Phe Val Leu Met Gly Ile Met Trp Ala Thr Gly Ile Leu Pro Lys Ile
 100 105 110
 Met Pro Ser Arg Lys Arg Cys Leu Ser Ile Asp Ile Pro Ala Ala Pro
 115 120 125
 Gln Ala Gly Met Cys Leu Leu Ile Leu
 130 135

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<210> 70
 <211> 46
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals stop translation

<400> 70
 Met Arg Thr Leu Ala Leu Leu Val Leu Leu Phe Cys Ser Cys Thr His
 1 5 10 15

Ser Ser Met Gly Trp Gly Arg Gln Ala Trp Gly Val Ala Leu Gly Glu
 20 25 30

Val Arg Ser Pro Pro Ala Gln Asp Thr Val Ala Lys Thr Xaa . .
 35 40 -45

<210> 71
 <211> 64
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals stop translation

<400> 71
 Met Cys Ala Trp His Cys Val His Leu Ala Leu Cys Val Val Gly Met
 1 5 10 15

Leu Phe Leu Leu Ser Val Thr Ser Ser Gln Phe Cys Lys Gln Arg Gln
 20 25 30

Asn His Ala Leu Pro Leu Lys Pro Ile Gly Phe Lys Cys His Leu Phe
 35 40 45

Asp Asp Ala Phe Pro Ile Thr Pro Phe Asp Thr Ser His Gly Thr Xaa
 50 55 60

<210> 72
 <211> 48
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals stop translation

<400> 72

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42

Met Phe Met Tyr Val Trp Cys Pro Leu Val Leu Phe Phe Phe Leu Leu
 1 5 10 15

Val Phe Glu Leu Val Leu Asn Arg Ile Leu Ser Gly Phe Leu Lys Tyr
 20 25 30

Phe His Phe His His Gly Tyr Asn Lys Phe Ala Ala Cys Pro Asn Xaa
 35 40 45

<210> 73

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals stop translation

<400> 73

Met Val Ser Pro Trp Leu Pro Leu Leu Val Ser Leu Phe His Leu Leu
 1 5 10 15

Asn Cys Leu Arg Gly Val Gly Thr Ser Gly Gln Ser Leu Gly Leu Pro
 20 25 30

Ser Ser Ser Phe Pro Pro Thr Pro Glu His Lys Ala Thr Ala Arg Asp
 35 40 45

Xaa

<210> 74

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals stop translation

<400> 74

Gly Lys Thr Leu Tyr Leu Pro Val Cys Leu Ser Phe Leu His Ser Pro
 1 5 10 15

Ala Ser Thr Phe Leu Pro Trp Asn Gln Gly Phe Leu Ser Pro Phe Ala
 20 25 30

Phe Ser Thr Leu Gly Thr Pro Gly Ala Lys Gln Phe Ser Ile Xaa
 35 40 45

<210> 75

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<211> 59
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (59)
 <223> Xaa equals stop translation

<400> 75
 Met Val Ser Leu Cys Ser Gly Leu Pro Ser Ser Cys Leu Leu Leu Gly
 1 5 10 15
 Ser Thr Ala Ala Ile Ile Gln Arg Gln Val Cys Leu Phe Gln Gly Ala
 20 25 30
 Arg Gln Trp Asn Pro Val Ser Glu Phe Leu Arg Ala His His His Cys
 35 40 45
 Gly Asn Arg Ala Gly Leu Pro Ala Val Leu Xaa
 50 55

<210> 76
 <211> 318
 <212> PRT
 <213> Homo sapiens

<400> 76
 Met Ala Lys Arg Thr Phe Ser Asn Leu Glu Thr Phe Leu Ile Phe Leu
 1 5 10 15
 Leu Val Met Met Ser Ala Ile Thr Val Ala Leu Leu Ser Leu Leu Phe
 20 25 30
 Ile Thr Ser Gly Thr Ile Glu Asn His Lys Asp Leu Gly Gly His Phe
 35 40 45
 Phe Ser Thr Thr Gln Ser Pro Pro Ala Thr Gln Gly Ser Thr Ala Ala
 50 55 60
 Gln Arg Ser Thr Ala Thr Gln His Ser Thr Ala Thr Gln Ser Ser Thr
 65 70 75 80
 Ala Thr Gln Thr Ser Pro Val Pro Leu Thr Pro Glu Ser Pro Leu Phe
 85 90 95
 Gln Asn Phe Ser Gly Tyr His Ile Gly Val Gly Arg Ala Asp Cys Thr
 100 105 110
 Gly Gln Val Ala Asp Ile Asn Leu Met Gly Tyr Gly Lys Ser Gly Gln
 115 120 125
 Asn Ala Gln Gly Ile Leu Thr Arg Leu Tyr Ser Arg Ala Phe Ile Met
 130 135 140
 Ala Glu Pro Asp Gly Ser Asn Arg Thr Val Phe Val Ser Ile Asp Ile
 145 150 155 160

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44
 Gly Met Val Ser Gln Arg Leu Arg Leu Glu Val Leu Asn Arg Leu Gln
 155 170
 Ser Lys Tyr Gly Ser Leu Tyr Arg Arg Asp Asn Val Ile Leu Ser Gly
 180 185 190
 Thr His Thr His Ser Gly Pro Ala Gly Tyr Phe Gln Tyr Thr Val Phe
 195 200 205
 Val Ile Ala Ser Glu Gly Phe Ser Asn Gln Thr Phe Gln His Met Val
 210 215 220
 Thr Gly Ile Leu Lys Ser Ile Asp Ile Pro His Thr Asn Met Lys Pro
 225 230 235 240
 Gly Lys Ile Phe Ile Asn Lys Gly Asn Val Asp Gly Val Gln Ile Asn
 245 250 255
 Arg Ser Pro Tyr Ser Tyr Leu Gln Asn Pro Gln Ser Glu Arg Ala Arg
 260 265 270
 Tyr Ser Ser Asn Thr Asp Lys Glu Met Ile Val Leu Lys Met Val Asp
 275 280 285
 Leu Asn Gly Asp Asp Leu Gly Leu Ile Ser Phe Ser Phe Ser Lys Ser
 290 295 300
 Ala Leu Gly Thr Tyr Tyr Glu Pro Arg Asn Thr Ser Leu Glu
 305 310 315
 <210> 77
 <211> 44
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (44)
 <223> Xaa equals stop translation
 <400> 77
 Met Ser Ser Trp Phe Thr Leu Leu Ala Ser Cys Phe His Leu Leu Trp
 1 5 10 15
 Pro Leu Ser Arg Ser Ser His Val Pro Ser Ser Phe Gln Pro Pro Asp
 20 25 30
 Leu Ser Ala Thr Phe Leu Leu Gln Ile Leu Gly Xaa
 35 40

<210> 78
 <211> 48
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE

<222> (48)

<223> Xaa equals stop translation

<400> 78

Met	Leu	Ile	Ser	Val	Asp	Ser	Asn	Val	Pro	Val	Val	Phe	Leu	Leu	Leu
1				5					10					15	

Phe	Ile	Leu	Val	Ile	Leu	Cys	His	Met	Glu	Cys	Lys	Gly	His	Ile	Tyr
		20						25					30		

Ile	Cys	Val	Cys	Val	Cys	Val	Tyr	Met	Tyr	Ile	Phe	Lys	Asn	Ile	Xaa
	35						40					45			

<210> 79

<211> 525

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (210)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 79

Met	Leu	Ala	Phe	Pro	Leu	Leu	Leu	Thr	Gly	Leu	Ile	Ser	Phe	Arg	Glu
1				5					10					15	

Lys	Arg	Leu	Gln	Asp	Val	Gly	Thr	Pro	Ala	Ala	Arg	Ala	Arg	Ala	Phe
		20						25					30		

Phe	Thr	Ala	Pro	Val	Val	Val	Phe	His	Leu	Asn	Ile	Leu	Ser	Tyr	Phe
		35					40						45		

Ala	Phe	Leu	Cys	Leu	Phe	Ala	Tyr	Val	Leu	Met	Val	Asp	Phe	Gln	Pro
	50					55					60				

Val	Pro	Ser	Trp	Cys	Glu	Cys	Ala	Ile	Tyr	Leu	Trp	Leu	Phe	Ser	Leu
65				70					75					80	

Val	Cys	Glu	Glu	Met	Arg	Gln	Leu	Phe	Tyr	Asp	Pro	Asp	Glu	Cys	Gly
			85						90					95	

Leu	Met	Lys	Lys	Ala	Ala	Leu	Tyr	Phe	Ser	Asp	Phe	Trp	Asn	Lys	Leu
			100					105					110		

Asp	Val	Gly	Ala	Ile	Leu	Leu	Phe	Val	Ala	Gly	Leu	Thr	Cys	Arg	Leu
		115						120					125		

Ile	Pro	Ala	Thr	Leu	Tyr	Pro	Gly	Arg	Val	Ile	Leu	Ser	Leu	Asp	Phe
	130					135					140				

Ile	Leu	Phe	Cys	Leu	Arg	Leu	Met	His	Ile	Phe	Thr	Ile	Ser	Lys	Thr
145				150					155					160	

Leu	Gly	Pro	Lys	Ile	Ile	Ile	Val	Lys	Arg	Met	Met	Lys	Asp	Val	Phe
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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Phe Phe Leu Phe Leu Leu Ala Val Trp Val Val Ser Phe Gly Val Ala
180 185 190

Lys Gln Ala Ile Leu Ile His Asn Glu Arg Arg Val Asp Trp Leu Phe
195 200 205

Arg Xaa Ala Val Tyr His Ser Tyr Leu Thr Ile Phe Gly Gln Ile Pro
210 215 220

Gly Tyr Ile Asp Gly Val Asn Phe Asn Pro Glu His Cys Ser Pro Asn
225 230 235 240

Gly Thr Asp Pro Tyr Lys Pro Lys Cys Pro Glu Ser Asp Ala Thr Gln
245 250 255

Gln Arg Pro Ala Phe Pro Glu Trp Leu Thr Val Leu Leu Leu Cys Leu
260 265 270

Tyr Leu Leu Phe Thr Asn Ile Leu Leu Leu Asn Leu Leu Ile Ala Met
275 280 285

Phe Asn Tyr Thr Phe Gln Gln Val Gln Glu His Thr Asp Gln Ile Trp
290 295 300

Lys Phe Gln Arg His Asp Leu Ile Glu Glu Tyr His Gly Arg Pro Ala
305 310 315 320

Ala Pro Pro Pro Phe Ile Leu Leu Ser His Leu Gln Leu Phe Ile Lys
325 330 335

Arg Val Val Leu Lys Thr Pro Ala Lys Arg His Lys Gln Leu Lys Asn
340 345 350

Lys Leu Glu Lys Asn Glu Glu Ala Ala Leu Leu Ser Trp Glu Ile Tyr
355 360 365

Leu Lys Glu Asn Tyr Leu Gln Asn Arg Gln Phe Gln Gln Lys Gln Arg
370 375 380

Pro Glu Gln Lys Ile Glu Asp Ile Ser Asn Lys Val Asp Ala Met Val
385 390 395 400

Asp Leu Leu Asp Leu Asp Pro Leu Lys Arg Ser Gly Ser Met Glu Gln
405 410 415

Arg Leu Ala Ser Leu Glu Glu Gln Val Ala Gln Thr Ala Arg Ala Leu
420 425 430

His Trp Ile Val Arg Thr Leu Arg Ala Ser Gly Phe Ser Ser Glu Ala
435 440 445

Asp Val Pro Thr Leu Ala Ser Gln Lys Ala Ala Glu Glu Pro Asp Ala
450 455 460

Glu Pro Gly Gly Arg Lys Lys Thr Glu Glu Pro Gly Asp Ser Tyr His
465 470 475 480

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Val Asn Ala Arg His Leu Leu Tyr Pro Asn Cys Pro Val Thr Arg Phe
485 490 495

Pro Val Pro Asn Glu Lys Val Pro Trp Glu Thr Glu Phe Leu Ile Tyr
500 505 510

Asp Pro Pro Phe Tyr Thr Ala Glu Arg Lys Asp Ala Ala
515 520 525

<210> 80

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals stop translation

<400> 80

Met Ala Gly Thr Val Leu Gly Val Gly Ala Gly Val Phe Ile Leu Ala
1 5 10 15

Leu Leu Trp Val Ala Val Leu Leu Leu Cys Val Leu Leu Ser Arg Ala
20 25 30

Ser Gly Ala Ala Arg Phe Ser Val Ile Phe Tyr Ser Ser Val Leu Xaa
35 40 45

<210> 81

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals stop translation

<400> 81

Met Ser Leu Leu Leu Pro Pro Leu Ala Leu Leu Leu Leu Ala Ala
1 5 10 15

Leu Val Ala Pro Ala Thr Ala Ala Thr Ala Tyr Arg Pro Asp Trp Asn
20 25 30

Arg Leu Ser Gly Leu Thr Arg Ala Arg Val Glu Thr Cys Gly Gly Xaa
35 40 45

<210> 82

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<211> 293
 <212> PRT
 <213> Homo sapiens

<400> 82

Met Ala Thr Ala Arg Pro Pro Trp Met Trp Val Leu Cys Ala Leu Ile
 1 5 10 15

Thr Ala Leu Leu Leu Gly Val Thr Glu His Val Leu Ala Asn Asn Asp
 20 25 30

Val Ser Cys Asp His Pro Ser Asn Thr Val Pro Ser Gly Ser Asn Gln
 35 40 45

Asp Leu Gly Ala Gly Ala Gly Glu Asp Ala Arg Ser Asp Asp Ser Ser
 50 55 60

Ser Arg Ile Ile Asn Gly Ser Asp Cys Asp Met His Thr Gln Pro Trp
 65 70 75 80

Gln Ala Ala Leu Leu Leu Arg Pro Asn Gln Leu Tyr Cys Gly Ala Val
 85 90 95

Leu Val His Pro Gln Trp Leu Leu Thr Ala Ala His Cys Arg Lys Lys
 100 105 110

Val Phe Arg Val Arg Leu Gly His Tyr Ser Leu Ser Pro Val Tyr Glu
 115 120 125

Ser Gly Gln Gln Met Phe Gln Gly Val Lys Ser Ile Pro His Pro Gly
 130 135 140

Tyr Ser His Pro Gly His Ser Asn Asp Leu Met Leu Ile Lys Leu Asn
 145 150 155 160

Arg Arg Ile Arg Pro Thr Lys Asp Val Arg Pro Ile Asn Val Ser Ser
 165 170 175

His Cys Pro Ser Ala Gly Thr Lys Cys Leu Val Ser Gly Trp Gly Thr
 180 185 190

Thr Lys Ser Pro Gln Val His Phe Pro Lys Val Leu Gln Cys Leu Asn
 195 200 205

Ile Ser Val Leu Ser Gln Lys Arg Cys Glu Asp Ala Tyr Pro Arg Gln
 210 215 220

Ile Asp Asp Thr Met Phe Cys Ala Gly Asp Lys Ala Gly Arg Asp Ser
 225 230 235 240

Cys Gln Gly Asp Ser Gly Gly Pro Val Val Cys Asn Gly Ser Leu Gln
 245 250 255

Gly Leu Val Ser Trp Gly Asp Tyr Pro Cys Ala Arg Pro Asn Arg Pro
 260 265 270

Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Lys Trp Ile Gln Glu Thr
 275 280 285

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Ile Gln Ala Asn Ser
290

<210> 83
<211> 89
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (89)
<223> Xaa equals stop translation

<400> 83
Met Val Ala Gly Phe Val Phe Tyr Leu Gly Val Phe Val Val Cys His
1 5 10 15

Gln Leu Ser Ser Ser Leu Asn Ala Thr Tyr Arg Ser Leu Val Ala Arg
20 25 30

Glu Lys Val Phe Trp Asp Leu Ala Ala Thr Arg Ala Val Phe Gly Val
35 40 45

Gln Ser Thr Ala Ala Ala Val Gly Ser Ala Gly Gly Pro Cys Ala Ala
50 55 60

Cys Arg Gln Gly Ala Trp Pro Ala Glu Leu Val Leu Val Ser His His
65 70 75 80

Asp Ser Asn Gly Ile Leu Leu Leu Xaa
85

<210> 84
<211> 250
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (212)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (213)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (215)
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
 <221> SITE
 <222> (216)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (218)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (221)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (250)
 <223> Xaa equals stop translation

<400> 84
 Met Trp Arg Cys Pro Leu Gly Leu Leu Leu Leu Pro Leu Ala Gly
 1 5 10 15
 His Leu Ala Leu Gly Ala Gln Gln Gly Arg Gly Arg Arg Glu Leu Ala
 20 25 30
 Pro Gly Leu His Leu Arg Gly Ile Arg Asp Ala Gly Gly Arg Tyr Cys
 35 40 45
 Gln Glu Gln Asp Leu Cys Cys Arg Gly Arg Ala Asp Asp Cys Ala Leu
 50 55 60
 Pro Tyr Leu Gly Ala Ile Cys Tyr Cys Asp Leu Phe Cys Asn Arg Thr
 65 70 75 80
 Val Ser Asp Cys Cys Pro Asp Phe Trp Asp Phe Cys Leu Gly Val Pro
 85 90 95
 Pro Pro Phe Pro Pro Ile Gln Gly Cys Met His Gly Gly Arg Ile Tyr
 100 105 110
 Pro Val Leu Gly Thr Tyr Trp Asp Asn Cys Asn Arg Cys Thr Cys Gln
 115 120 125
 Glu Asn Arg Gln Trp Gln Cys Asp Gln Glu Pro Cys Leu Val Asp Pro
 130 135 140
 Asp Met Ile Lys Ala Ile Asn Gln Gly Asn Tyr Gly Trp Gln Ala Gly
 145 150 155 160
 Xaa His Ser Ala Phe Trp Gly Met Thr Leu Asp Glu Gly Ile Arg Tyr
 165 170 175
 Arg Leu Gly Thr Ile Arg Pro Ser Ser Ser Val Met Asn Met His Glu
 180 185 190
 Ile Tyr Thr Val Leu Asn Pro Gly Glu Val Leu Pro Thr Ala Phe Glu
 195 200 205

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Ala Ser Glu Xaa Xaa Pro Xaa Xaa Phe Xaa Ser Leu Xaa Thr Lys Ala
210 215 220

Thr Val Gln Ala Pro Gly Pro Ser Pro Gln Gln Leu Trp His Pro Ile
225 230 235 240

Val Ser Gln Ser Ile Leu Trp Asp Thr Xaa
245 250

<210> 85
<211> 58
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (58)
<223> Xaa equals stop translation

<400> 85
Met Tyr Thr Lys Leu Met Leu Asn Lys Val Leu Leu Phe Trp Gln Ile
1 5 10 15

Val Lys Cys Lys Val Leu Val Asp Gln Tyr Cys Tyr Asn Phe Gly Ala
20 25 30

Lys Leu Leu His Ala Asp Trp Leu Trp Asp Leu Val His Phe Leu Arg
35 40 45

Thr Asn Val Glu Phe Glu Lys Thr Pro Xaa
50 55

<210> 86
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (49)
<223> Xaa equals stop translation

<400> 86
Met Phe Leu Gly Ser Leu Cys Phe Ser Leu Leu Cys His Ala Gly Cys
1 5 10 15

Gln Gly Ser Gly Gly Lys Pro Ala Val Thr Gly Leu Thr Gln Leu Pro
20 25 30

His Asn Pro Lys Gly Trp Phe His Ser His His Ala Pro Arg Pro Gln
35 40 45

Xaa

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<210> 87
 <211> 172
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (170)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 87
 Met Arg Gly Ser Val Glu Cys Thr Trp Gly Trp Gly His Cys Ala Pro
 1 5 10 15
 Ser Pro Leu Leu Leu Trp Thr Leu Leu Leu Phe Ala Ala Pro Phe Gly
 20 25 30
 Leu Leu Gly Glu Lys Thr Arg Gln Leu Leu Glu Phe Asp Ser Thr Asn
 35 40 45
 Val Ser Asp Thr Ala Ala Lys Pro Leu Gly Arg Pro Tyr Pro Pro Tyr
 50 55 60
 Ser Leu Ala Asp Phe Ser Trp Asn Asn Ile Thr Asp Ser Leu Asp Pro
 65 70 75 80
 Ala Thr Leu Ser Ala Thr Phe Gln Gly His Pro Met Asn Asp Pro Thr
 85 90 95
 Arg Thr Phe Ala Asn Gly Ser Leu Ala Phe Arg Val Gln Ala Phe Ser
 100 105 110
 Arg Ser Ser Arg Pro Ala Gln Pro Pro Arg Leu Leu His Thr Ala Asp
 115 120 125
 Thr Cys Gln Leu Glu Val Ala Leu Ile Gly Ala Ser Pro Arg Gly Asn
 130 135 140
 Arg Ser Leu Phe Gly Leu Glu Val Ala Thr Leu Gly Gln Gly Pro Asp
 145 150 155 160
 Cys Pro Ser Met Gln Glu Gln His Ser Xaa Glu Arg
 165 170

<210> 88
 <211> 174
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (174)
 <223> Xaa equals stop translation

<400> 88
 Met Val Phe Leu Lys Phe Phe Cys Met Ser Phe Phe Cys His Leu Cys
 1 5 10 15

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53

Gln Gly Tyr Phe Asp Gly Pro Leu Tyr Pro Glu Met Ser Asn Gly Thr
20 25 30

Leu His His Tyr Phe Val Pro Asp Gly Asp Tyr Glu Glu Asn Asp Asp
35 40 45

Pro Glu Lys Cys Gln Leu Leu Phe Arg Val Ser Asp His Arg Arg Cys
50 55 60

Ser Gln Gly Glu Gly Ser Gln Val Gly Ser Leu Leu Ser Leu Thr Leu
65 70 75 80

Arg Glu Glu Phe Thr Val Leu Gly His Gln Val Glu Gly Cys Trp Ala
85 90 95

Arg Ala Gly Gly His Gln Gln Lys His Leu Leu Arg Pro Arg Arg Gly
100 105 110

Arg Glu Leu Trp Gln Val Pro Ala Ala Gly Val Pro Pro Asp Arg Gly
115 120 125

Met Pro Thr Pro Thr Arg Thr Asn Pro Ser Leu Ser Trp Arg Ala Ser
130 135 140

Ser Ser Arg Ala Arg Asn Arg Thr Ala Gly Arg Arg Ala Gly Ser Thr
145 150 155 160

Arg Thr Phe Trp Glu Cys Trp Ser Thr Pro Gly Pro Cys Xaa
165 170

<210> 89

<211> 275

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (275)

<223> Xaa equals stop translation

<400> 89

Met Phe Tyr Ile Ile Gly Gly Val Ala Thr Leu Leu Ile Leu Val
1 5 10 15

Ile Ile Val Phe Lys Glu Lys Pro Lys Tyr Pro Pro Ser Arg Ala Gln
20 25 30

Ser Leu Ser Tyr Ala Leu Thr Ser Pro Asp Ala Ser Tyr Leu Gly Ser
35 40 45

Ile Ala Arg Leu Phe Lys Asn Leu Asn Phe Val Leu Leu Val Ile Thr
50 55 60

Tyr Gly Leu Asn Ala Gly Ala Phe Tyr Ala Leu Ser Thr Leu Leu Asn
65 70 75 80

Arg Met Val Ile Trp His Tyr Pro Gly Glu Glu Val Asn Ala Gly Arg
85 90 95

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Ile Gly Leu Thr Ile Val Ile Ala Gly Met Leu Gly Ala Val Ile Ser
 100 105 110
 Gly Ile Trp Leu Asp Arg Ser Lys Thr Tyr Lys Glu Thr Thr Leu Val
 115 120 125
 Val Tyr Ile Met Thr Leu Val Gly Met Val Val Tyr Thr Phe Thr Leu
 130 135 140
 Asn Leu Gly His Leu Trp Val Val Phe Ile Thr Ala Gly Thr Met Gly
 145 150 155 160
 Phe Phe Met Thr Gly Tyr Leu Pro Leu Gly Phe Glu Phe Ala Val Glu
 165 170 175
 Leu Thr Tyr Pro Glu Ser Glu Gly Ile Ser Ser Gly Leu Leu Asn Ile
 180 185 190
 Ser Ala Gln Val Phe Gly Ile Ile Phe Thr Ile Ser Gln Gly Gln Ile
 195 200 205
 Ile Asp Asn Tyr Gly Thr Lys Pro Gly Asn Ile Phe Leu Cys Val Phe
 210 215 220
 Leu Thr Leu Gly Ala Ala Leu Thr Ala Phe Ile Lys Ala Asp Leu Arg
 225 230 235 240
 Arg Gln Lys Ala Asn Lys Glu Thr Leu Glu Asn Lys Leu Gln Glu Glu
 245 250 255
 Glu Glu Glu Ser Asn Thr Ser Lys Val Pro Thr Ala Val Ser Glu Asp
 260 265 270
 His Leu Xaa
 275

<210> 90
 <211> 83
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (83)
 <223> Xaa equals stop translation

<400> 90
 Met Lys Lys Val Ala Arg Leu Ser Ser Leu Gly His Val Val Trp Arg
 1 5 10 15
 Leu Tyr Ala Arg Val Leu Ala Leu Ile Thr Cys Ile Phe Trp Val Leu
 20 25 30
 Ala Leu Ile Ile Cys Ile Phe Thr Pro Gln Ile Phe Phe Lys His Leu
 35 40 45
 Leu His Ala Arg Pro Cys Ser Arg Tyr Arg Arg Tyr Asn Ser Lys Asn

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50

55

55

60

Thr Asp Leu Ala Leu Met Lys Leu Lys Leu Leu Arg Gln Ala Asp Ser
 65 70 75 80

Asp Lys Xaa

<210> 91

<211> 212

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (212)

<223> Xaa equals stop translation

<400> 91

Met Ala Asn Ala Gly Leu Gln Leu Leu Gly Phe Ile Leu Ala Phe Leu
 1 5 10 15

Gly Trp Ile Gly Ala Ile Val Ser Thr Ala Leu Pro Gln Trp Arg Ile
 20 25 30

Tyr Ser Tyr Ala Gly Asp Asn Ile Val Thr Ala Gln Ala Met Tyr Glu
 35 40 45

Gly Leu Trp Met Ser Cys Val Ser Gln Ser Thr Gly Gln Ile Gln Cys
 50 55 60

Lys Val Phe Asp Ser Leu Leu Asn Leu Ser Ser Thr Leu Gln Ala Thr
 65 70 75 80

Arg-Ala Leu Met Val Val Gly Ile Leu Leu Gly Val Ile Ala Ile Phe
 85 90 95

Val Ala Xaa Val Gly Met Lys Cys Met Lys Cys Leu Glu Asp Asp Glu
 100 105 110

Val Gln Lys Met Arg Met Ala Val Ile Gly Gly Ala Ile Phe Leu Leu
 115 120 125

Ala Gly Leu Ala Ile Leu Val Ala Thr Ala Trp Tyr Gly Asn Arg Ile
 130 135 140

Val Gln Glu Phe Tyr Asp Pro Met Thr Pro Val Asn Ala Arg Tyr Glu
 145 150 155 160

Phe Gly Gln Ala Leu Phe Thr Gly Trp Ala Ala Ala Ser Leu Cys Leu
 165 170 175

Leu Gly Gly Ala Leu Leu Cys Cys Ser Cys Pro Arg Lys Thr Thr Ser

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180

56
185

190

Tyr Pro Thr Pro Arg Pro Tyr Pro Lys Pro Ala Pro Ser Ser Gly Lys
195 200 205

Asp Tyr Val Xaa
210

<210> 92
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals stop translation

<400> 92
Met Phe Val Phe Leu Ser Val Leu Tyr Ser Leu Ser Leu Glu Tyr Met
1 5 10 15

Phe Leu Phe Val Phe Gly Lys Lys Ile Ser Phe Thr Ser Leu His Ser
20 25 30

Asp Gln Leu Gly Lys Lys Lys Ala Xaa
35 40

<210> 93
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (49)
<223> Xaa equals stop translation

<400> 93
Met Gln Pro Cys Leu Phe Met Phe Val Leu Met Gly Ile Met Trp Ala
1 5 10 15

Thr Gly Ile Leu Pro Lys Ile Met Pro Ser Arg Lys Arg Cys Leu Ser
20 25 30

Ile Asp Ile Pro Ala Ala Pro Gln Ala Gly Met Cys Leu Ile Leu
35 40 45

Xaa

<210> 94
<211> 90
<212> PRT
<213> Homo sapiens

<220>
 <221> SITE
 <222> (90)
 <223> Xaa equals stop translation

<400> 94

Met Ala Lys Arg Thr Phe Ser Asn Leu Glu Thr Phe Leu Ile Phe Leu
 1 5 10 15

Leu Val Met Met Ser Ala Ile Thr Val Ala Leu Leu Ser Leu Leu Phe
 20 25 30

Ile Thr Ser Gly Thr Ile Glu Asn His Lys Asp Leu Gly Gly His Phe
 35 40 45

Phe Ser Thr Thr Gln Ser Pro Pro Ala Thr Gln Gly Ser Thr Ala Ala
 50 55 60

Gln Arg Ser Thr Ala Thr Gln His Ser Thr Ala Thr Gln Ser Ser Asn
 65 70 75 80

Ser Gln Leu Lys Leu Leu Gln Cys Leu Xaa
 85 90

<210> 95

<211> 486

<212> PRT

<213> Homo sapiens

<400> 95

Met Gln Pro Ser Gly Leu Glu Gly Pro Gly Thr Phe Gly Arg Trp Pro
 1 5 10 15

Leu Leu Ser Leu Leu Leu Leu Leu Leu Leu Leu Gln Pro Val Thr Cys
 20 25 30

Ala Tyr Thr Thr Pro Gly Pro Pro Arg Ala Leu Thr Thr Leu Gly Ala
 35 40 45

Pro Arg Ala His Thr Met Pro Gly Thr Tyr Ala Pro Ser Thr Thr Leu
 50 55 60

Ser Ser Pro Ser Thr Gln Gly Leu Gln Glu Gln Ala Arg Ala Leu Met
 65 70 75 80

Arg Asp Phe Pro Leu Val Asp Gly His Asn Asp Leu Pro Leu Val Leu
 85 90 95

Arg Gln Val Tyr Gln Lys Gly Leu Gln Asp Val Asn Leu Arg Asn Phe
 100 105 110

Ser Tyr Gly Gln Thr Ser Leu Asp Arg Leu Arg Asp Gly Leu Val Gly
 115 120 125

Ala Gln Phe Trp Ser Ala Tyr Val Pro Cys Gln Thr Gln Asp Arg Asp
 130 135 140

Ala Leu Arg Leu Thr Leu Glu Gln Ile Asp Leu Ile Arg Arg Met Cys

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145 150 58 155 160
 Ala Ser Tyr Ser Glu Leu Glu Leu Val Thr Ser Ala Lys Ala Leu Asn
 165 170 175
 Asp Thr Gln Lys Leu Ala Cys Leu Ile Gly Val Glu Gly Gly His Ser
 180 185 190
 Leu Asp Asn Ser Leu Ser Ile Leu Arg Thr Phe Tyr Met Leu Gly Val
 195 200 205
 Arg Tyr Leu Thr Leu Thr His Thr Cys Asn Thr Pro Trp Ala Glu Ser
 210 215 220
 Ser Ala Lys Gly Val His Ser Phe Tyr Asn Asn Ile Ser Gly Leu Thr
 225 230 235 240
 Asp Phe Gly Glu Lys Val Val Ala Glu Met Asn Arg Leu Gly Met Met
 245 250 255
 Val Asp Leu Ser His Val Ser Asp Ala Val Ala Arg Arg Ala Leu Glu
 260 265 270
 Val Ser Gln Ala Pro Val Ile Phe Ser His Ser Ala Ala Arg Gly Val
 275 280 285
 Cys Asn Ser Ala Arg Asn Val Pro Asp Asp Ile Leu Gln Leu Leu Lys
 290 295 300
 Lys Asn Gly Gly Val Val Met Val Ser Leu Ser Met Gly Val Ile Gln
 305 310 315 320
 Cys Asn Pro Ser Ala Asn Val Ser Thr Val Ala Asp His Phe Asp His
 325 330 335
 Ile Lys Ala Val Ile Gly Ser Lys Phe Ile Gly Ile Gly Gly Asp Tyr
 340 345 350
 Asp Gly Ala Gly Lys Phe Pro Gln Gly Leu Glu Asp Val Ser Thr Tyr
 355 360 365
 Pro Val Leu Ile Glu Glu Leu Leu Ser Arg Gly Trp Ser Glu Glu Glu
 370 375 380
 Leu Gln Gly Val Leu Arg Gly Asn Leu Leu Arg Val Phe Arg Gln Val
 385 390 395 400
 Glu Lys Val Gln Glu Glu Asn Lys Trp Gln Ser Pro Leu Glu Asp Lys
 405 410 415
 Phe Pro Asp Glu Gln Leu Ser Ser Ser Cys His Ser Asp Leu Ser Arg
 420 425 430
 Leu Arg Gln Arg Gln Ser Leu Thr Ser Gly Gln Glu Leu Thr Glu Ile
 435 440 445
 Pro Ile His Trp Thr Ala Lys Leu Pro Ala Lys Trp Ser Val Ser Glu
 450 455 460

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Ser Ser Pro His Met Ala Pro Val Leu Ala Val Val Ala Thr Phe Pro
465 470 475 480

Val Leu Ile Leu Trp Leu
485

<210> 96

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals stop translation

<400> 96

Met Met Lys Asp Val Phe Phe Phe Leu Phe Leu Ala Val Trp Val
1 5 10 15

Val Ser Phe Gly Val Ala Lys Gln Ala Ile Leu Ile His Asn Glu Arg
20 25 30

Arg Val Asp Trp Leu Phe Arg Gly Pro Ser Thr Thr Pro Thr Ser Pro
35 40 45

Ser Ser Gly Arg Ser Arg Ala Thr Ser Thr Val Xaa
50 55 60

<210> 97

<211> 293

<212> PRT

<213> Homo sapiens

<400> 97

Met Ala Thr Ala Arg Pro Pro Trp Met Trp Val Leu Cys Ala Leu Ile
1 5 10 15

Thr Ala Leu Leu Leu Gly Val Thr Glu His Val Leu Ala Asn Asn Asp
20 25 30

Val Ser Cys Asp His Pro Ser Asn Thr Val Pro Ser Gly Ser Asn Gln
35 40 45

Asp Leu Gly Ala Gly Ala Gly Glu Asp Ala Arg Ser Asp Asp Ser Ser
50 55 60

Ser Arg Ile Ile Asn Gly Ser Asp Cys Asp Met His Thr Gln Pro Trp
65 70 75 80

Gln Ala Ala Leu Leu Leu Arg Pro Asn Gln Leu Tyr Cys Gly Ala Val
85 90 95

Leu Val His Pro Gln Trp Leu Leu Thr Ala Ala His Cys Arg Lys Lys
100 105 110

Val Phe Arg Val Arg Leu Gly His Tyr Ser Leu Ser Pro Val Tyr Glu

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115

120

125

Ser Gly Gln Gln Met Phe Gln Gly Val Lys Ser Ile Pro His Pro Gly
130 135 140

Tyr Ser His Pro Gly His Ser Asn Asp Leu Met Leu Ile Lys Leu Asn
145 150 155 160

Arg Arg Ile Arg Pro Thr Lys Asp Val Arg Pro Ile Asn Val Ser Ser
165 170 175

His Cys Pro Ser Ala Gly Thr Lys Cys Leu Val Ser Gly Trp Gly Thr
180 185 190

Thr Lys Ser Pro Gln Val His Phe Pro Lys Val Leu Gln Cys Leu Asn
195 200 205

Ile Ser Val Leu Ser Gln Lys Arg Cys Glu Asp Ala Tyr Pro Arg Gln
210 215 220

Ile Asp Asp Thr Met Phe Cys Ala Gly Asp Lys Ala Gly Arg Asp Ser
225 230 235 240

Cys Gln Gly Asp Ser Gly Gly Pro Val Val Cys Asn Gly Ser Leu Gln
245 250 255

Gly Leu Val Ser Trp Gly Asp Tyr Pro Cys Ala Arg Pro Asn Arg Pro
260 265 270

Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Lys Trp Ile Gln Glu Thr
275 280 285

Ile Gln Ala Asn Ser
290

<210> 98

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals stop translation

<400> 98

Met Ala Thr Ala Arg Pro Pro Trp Met Trp Val Leu Cys Ala Leu Ile
1 5 10 15

Thr Ala Leu Leu Leu Gly Val Thr Glu His Val Leu Ala Asn Asn Asp
20 25 30

Val Ser Cys Asp His Pro Ser Asn Thr Val Pro Ser Gly Ser Asn Gln
35 40 45

Asp Leu Gly Ala Gly Ala Gly Gly Arg Arg Pro Val Gly Xaa
50 55 60

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<220>  
<221> SITE  
<222> (132)  
<223> Xaa equals stop translation
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400> 99
Met Arg Gly Ser Val Glu Cys Thr Trp Gly Trp Gly His Cys Ala Pro
  1              5              10              15
Ser Pro Leu Leu Leu Trp Thr Leu Leu Leu Phe Ala Ala Pro Phe Gly
              20              25              30
Leu Leu Gly Glu Lys Thr Arg Gln Leu Leu Glu Phe Asp Ser Thr Asn
  35              40              45
Val Ser Asp Thr Ala Ala Lys Pro Leu Gly Arg Pro Tyr Pro Pro Tyr
  50              55              60
Ser Leu Ala Asp Phe Ser Trp Asn Asn Ile Thr Asp Ser Leu Asp Pro
  65              70              75              80
Ala Thr Leu Ser Ala Thr Phe Gln Gly His Pro Met Asn Asp Pro Thr
              85              90              95
Arg Thr Phe Ala Asn Gly Ser Leu Ala Phe Arg Ser Arg Pro Phe Pro
              100              105              110
Gly Pro Ala Asp Gln Pro Asn Pro Leu Ala Ser Cys Thr Gln Gln Thr
  115              120              125
Pro Val Ser Xaa
  130

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<220>
<221> SITE
<222> (71)
<223> Xaa equals stop translation
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4400> 100
Met Ala Asn Ala Gly Leu Gln Leu Gly Phe Ile Leu Ala Phe Leu
      1              5              10              15
Gly Trp Ile Gly Ala Ile Val Ser Thr Ala Leu Pro Gln Trp Arg Ile
      20              25              30
Tyr Ser Tyr Ala Gly Asp Asn Ile Val Thr Pro Arg Pro Cys Thr Arg
      35              40              45

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Gly Cys Gly Cys Pro Ala Cys Arg Arg Ala Pro Gly Arg Ser Ser Ala
 50 55 60

Lys Ser Leu Thr Pro Cys Xaa
 65 70

<210> 101
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 101
 Ile Lys Ile Ser Leu Lys Lys Arg Ser
 1 5

<210> 102
 <211> 151
 <212> PRT
 <213> Homo sapiens

<400> 102
 Ile Lys Ile Ser Leu Lys Lys Arg Ser Met Ser Gly Ile Ser Gly Cys
 1 5 10 15

Pro Phe Phe Leu Trp Gly Leu Leu Ala Leu Leu Gly Leu Ala Leu Val
 20 25 30

Ile Ser Leu Ile Phe Asn Ile Ser His Tyr Val Glu Lys Gln Arg Gln
 35 40 45

Asp Lys Met Tyr Ser Tyr Ser Ser Asp His Thr Arg Val Asp Glu Tyr
 50 55 60

Tyr Ile Glu Asp Thr Pro Ile Tyr Gly Asn Leu Asp Asp Met Ile Ser
 65 70 75 80

Glu Pro Met Asp Glu Asn Cys Tyr Glu Gln Met Lys Ala Arg Pro Glu
 85 90 95

Lys Ser Val Asn Lys Met Gln Glu Ala Thr Pro Ser Ala Gln Ala Thr
 100 105 110

Asn Glu Thr Gln Met Cys Tyr Ala Ser Leu Asp His Ser Val Lys Gly
 115 120 125

Lys Arg Arg Ser Pro Gly Asn Arg Ile Leu Ile Ser Gln Thr Arg Met
 130 135 140

Glu Met Ser Asn Tyr Met Gln
 145 150

<210> 103
 <211> 79
 <212> PRT
 <213> Homo sapiens

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<400> 103

Gly Thr Arg Gly Leu Ser Thr Val Ser Trp Thr His Thr Gln Pro Ser
 1 5 10 15

Lys Arg Gly Asp Pro Ser Arg Glu Pro Arg Gly Gly His Ser Cys Leu
 20 25 30

Leu Pro Gly Ser Pro Ala Thr Trp Cys Leu Pro Ala Pro Cys Ser Leu
 35 40 45

Pro Gly Pro Val Leu Thr Pro Ser Ser Ser Gly Leu Asp Ser Ala Leu
 50 55 60

Glu Gly Pro Arg Gly Ala Ala Ser Leu Leu Arg Ala Pro Leu Gln
 65 70 75

<210> 104

<211> 23

<212> PRT

<213> Homo sapiens

<400> 104

His Thr Gln Pro Ser Lys Arg Gly Asp Pro Ser Arg Glu Pro Arg Gly
 1 5 10 15

Gly His Ser Cys Leu Leu Pro
 20

<210> 105

<211> 22

<212> PRT

<213> Homo sapiens

<400> 105

Val Leu Thr Pro Ser Ser Ser Gly Leu Asp Ser Ala Leu Glu Gly Pro
 1 5 10 15

Arg.Gly Ala Ala Ser Leu
 20

<210> 106

<211> 180

<212> PRT

<213> Homo sapiens

<400> 106

Gly Thr Arg Gly Leu Ser Thr Val Ser Trp Thr His Thr Gln Pro Ser
 1 5 10 15

Lys Arg Gly Asp Pro Ser Arg Glu Pro Arg Gly Gly His Ser Cys Leu
 20 25 30

Leu Pro Gly Ser Pro Ala Thr Trp Cys Leu Pro Ala Pro Cys Ser Leu
 35 40 45

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64

Pro Gly Pro Val Leu Thr Pro Ser Ser Ser Gly Leu Asp Ser Ala Leu
50 55 60

Glu Gly Pro Arg Gly Ala Ala Ser Leu Leu Arg Ala Pro Leu Gln Met
65 70 75 80

Glu Glu Ala Ile Leu Val Pro Cys Val Leu Gly Leu Leu Leu Pro
85 90 95

Ile Leu Ala Met Leu Met Ala Leu Cys Val His Cys His Arg Leu Pro
100 105 110

Gly Ser Tyr Asp Ser Thr Ser Ser Asp Ser Leu Tyr Pro Lys Gly His
115 120 125

Pro Val Gln Thr Ala Ser His Gly Cys Pro Leu Ala Thr Cys Leu Pro
130 135 140

Thr Cys His Leu Leu Pro Thr Pro Glu Pro Ala Arg Pro Ala Pro His
145 150 155 160

Pro Lys Ile Pro Ala Ala Pro Trp Gly Leu Pro Pro Asp Ala Ile Phe
165 170 175

Pro Ala Gly Phe
180

<210> 107

<211> 6

<212> PRT

<213> Homo sapiens

<400> 107

Cys Val His Cys His Arg
1 5

<210> 108

<211> 11

<212> PRT

<213> Homo sapiens

<400> 108

Ala Gly Ser Arg Thr Asn Asn Glu Gln Ile Glu
1 5 10

<210> 109

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 109

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65
 Ala Gly Ser Arg Thr Asn Asn Glu Gln Ile Glu Met Ser Cys Ile Gly
 1 5 10 15
 Arg Met Arg Leu Ile Cys Phe Ile Ile Leu Arg Ile Cys Gly Leu Glu
 20 25 30
 His Leu Phe Gly Asn Met Gly Leu Gly Xaa Lys Asn Gly His Leu Pro
 35 40 45
 Gly His Tyr Gly His Ser Leu Glu Phe Phe
 50 55

<210> 110
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 110
 Gly Thr Ser Thr Ser Ser Arg Gly Arg Leu His Ala Cys Gly His Ser
 1 5 10 15

<210> 111
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 111
 Pro Ser Ser Glu Val Gln Lys Gly Lys Pro Asn Ser Pro Leu Gly Asn
 1 5 10 15

Ser Glu Leu Arg Pro His Leu Val Asn Thr Lys Pro Arg Thr Ser Leu
 20 25 30

Glu Arg Gly His Thr Ile Pro Phe Leu Trp Pro Ser Glu Phe Gly Leu
 35 40 45

Ser Gln Leu Trp Gly Thr Pro Ser Leu Asn Pro Asn Lys Thr Pro Leu
 50 55 60

Glu Ser Leu Ser Leu His Pro Ser Pro Leu Pro Ser Ala Leu Ile Ala
 65 70 75 80

Ala Arg Ile Val Thr Pro Asn Leu Thr Leu Ser Ser Leu Ile Lys
 85 90 95

<210> 112
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 112
 Pro Asn Ser Pro Leu Gly Asn Ser Glu Leu Arg Pro His Leu Val Asn
 1 5 10 15

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Thr Lys Pro Arg Thr
20

<210> 113
<211> 23
<212> PRT
<213> Homo sapiens

<400> 113
Leu Ser Leu His Pro Ser Pro Leu Pro Ser Ala Leu Ile Ala Ala Arg
1 5 10 15

Ile Val Thr Pro Asn Leu Thr
20

<210> 114
<211> 268
<212> PRT
<213> Homo sapiens

<400> 114
Pro Gly Ser Gln Gly Ala Ala Ala Gly Arg Glu Leu Phe Met Thr Asp
1 5 10 15

Arg Glu Arg Leu Ala Glu Ala Arg Gln Arg Glu Leu Gln Arg Gln Glu
20 25 30

Leu Leu Met Gln Lys Arg Leu Ala Met Glu Ser Asn Lys Ile Leu Gln
35 40 45

Glu Gln Gln Glu Met Glu Arg Gln Arg Arg Lys Glu Ile Ala Gln Lys
50 55 60

Ala Ala Glu Glu Asn Glu Arg Tyr Arg Lys Glu Met Glu Gln Ile Val
65 70 75 80

Glu Glu Glu Glu Lys Phe Lys Lys Gln Trp Glu Glu Asp Trp Gly Ser
85 90 95

Lys Glu Gln Leu Leu Leu Pro Lys Thr Ile Thr Ala Glu Val His Pro
100 105 110

Val Pro Leu Arg Lys Pro Lys Tyr Asp Gln Gly Val Glu Pro Glu Leu
115 120 125

Glu Pro Ala Asp Asp Leu Asp Gly Gly Thr Glu Glu Gln Gly Glu Gln
130 135 140

Asp Phe Arg Lys Tyr Glu Glu Gly Phe Asp Pro Tyr Ser Met Phe Thr
145 150 155 160

Pro Glu Gln Ile Met Gly Lys Asp Val Arg Leu Leu Arg Ile Lys Lys
165 170 175

Glu Gly Ser Leu Asp Leu Ala Leu Glu Gly Gly Val Asp Ser Pro Ile
180 185 190

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Gly Lys Val Val Val Ser Ala Val Tyr Glu Arg Gly Ala Ala Glu Arg
195 200 205

His Gly Gly Ile Val Lys Gly Asp Glu Ile Met Ala Ile Asn Gly Lys
210 215 220

Ile Val Thr Asp Tyr Thr Leu Ala Glu Ala Asp Ala Ala Leu Gln Lys
225 230 235 240

Ala Trp Asn Gln Gly Gly Asp Trp Ile Asp Leu Val Val Ala Val Cys
245 250 255

Pro Pro Lys Glu Tyr Asp Asp Glu Leu Thr Phe Phe
260 265

<210> 115
<211> 23
<212> PRT
<213> Homo sapiens

<400> 115
Gly Arg Glu Leu Phe Met Thr Asp Arg Glu Arg Leu Ala Glu Ala Arg
1 5 10 15

Gln Arg Glu Leu Gln Arg Gln
20

<210> 116
<211> 22
<212> PRT
<213> Homo sapiens

<400> 116
Gln Gln Glu Met Glu Arg Gln Arg Arg Lys Glu Ile Ala Gln Lys Ala
1 5 10 15

Ala Glu Glu Asn Glu Arg
20

<210> 117
<211> 25
<212> PRT
<213> Homo sapiens

<400> 117
Lys Pro Lys Tyr Asp Gln Gly Val Glu Pro Glu Leu Glu Pro Ala Asp
1 5 10 15

Asp Leu Asp Gly Gly Thr Glu Glu Gln
20 25

<210> 118
<211> 25
<212> PRT

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<213> Homo sapiens

<400> 118

Ile Val Thr Asp Tyr Thr Leu Ala Glu Ala Asp Ala Ala Leu Gln Lys
 1 5 10 15

Ala Trp Asn Gln Gly Gly Asp Trp Ile
 20 25

<210> 119

<211> 113

<212> PRT

<213> Homo sapiens

<400> 119

Gly Thr Ser Thr Ser Arg Gly Arg Leu His Ala Cys Gly His Ser
 1 5 10 15

Met Ile Leu Leu Leu Ser Leu Phe Gln Gly Val Arg Gly Ser Leu Gly
 20 25 30

Ser Pro Gly Asn Arg Glu Asn Lys Glu Lys Lys Val Phe Ile Ser Leu
 35 40 45

Val Gly Ser Arg Gly Leu Gly Cys Ser Ile Ser Ser Gly Pro Ile Gln
 50 55 60

Lys Pro Gly Ile Phe Ile Ser His Val Lys Pro Gly Ser Leu Ser Ala
 65 70 75 80

Glu Val Gly Leu Glu Ile Gly Asp Gln Ile Val Glu Val Asn Gly Val
 85 90 95

Asp Phe Ser Asn Leu Asp His Lys Glu Leu Gln Leu Ala Gly Ser Cys
 100 105 110

Ser

<210> 120

<211> 8

<212> PRT

<213> Homo sapiens

<400> 120

Gly Ile Ile Ala Gln Gly Lys Ser
 1 5

<210> 121

<211> 33

<212> PRT

<213> Homo sapiens

<400> 121

His Thr Met Leu Pro Leu Lys Ile Ala Ala Pro Tyr Leu Leu Glu Asn
 1 5 10 15

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Thr

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<210> 122
<211> 19
<212> PRT
<213> Homo sapiens
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<400> 122
Phe Ser Ile Leu Phe Ala Phe Val Leu Phe Tyr Pro Gly Ser Phe Phe
1 5 10 15

Thr Leu Pro

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<210> 123
<211> 60
<212> PRT
<213> Homo sapiens
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<400> 123
Phe Ser Ile Leu Phe Ala Phe Val Leu Phe Tyr Pro Gly Ser Phe Phe
1 5 10 15

Thr Leu Pro Met Tyr Met Lys Gln Val Val Ala Cys Arg Asp Gln Leu
20 25 30

Ile Leu Val Leu Trp Leu Ile Glu Leu Leu Cys Ile Gln Gly Phe Cys
35 40 45

Lys Ser Lys Ser Asp Phe Ser Ser Arg Ile Tyr Ser
50 55 60

```
<210> 124
<211> 6
<212> PRT
<213> Homo sapiens
```

```
<400> 124
His Glu Ser Thr Val Lys
  1                               5
```

```
<210> 125
<211> 27
<212> PRT
<213> Homo sapiens
```

```
<400> 125
Leu Glu Asn Leu Gly Thr His Lys Lys Lys Asp Ser Phe Ser Val Lys
  1             5             10             15
```

70

Thr Val Gly Ile Cys Cys Cys Phe His Leu Asn
20 25

<210> 126
<211> 84
<212> PRT
<213> Homo sapiens

<400> 126
Leu Glu Asn Leu Gly Thr His Lys Lys Lys Asp Ser Phe Ser Val Lys
1 5 10 15

Thr Val Gly Ile Cys Cys Cys Phe His Leu Asn Met Leu Tyr Phe Cys
20 25 30

Ser Ser Ile Trp Phe Gly Ile Tyr Phe Val Ala Leu Ile Thr Val Phe
35 40 45

Leu Lys Thr Leu Pro Pro Leu Thr Val Gly Lys Gly Pro Phe Ser Gly
50 55 60

Lys Phe Val Ala Phe Phe Phe Phe Leu Lys Glu Ser Cys Ser Leu Leu
65 70 75 80

Ser Ile Val Phe

<210> 127
<211> 6
<212> PRT
<213> Homo sapiens

<400> 127
Phe Thr Lys Cys Phe His
1 5

<210> 128
<211> 8
<212> PRT
<213> Homo sapiens

<400> 128
Gln Asn Met Asn Asp Tyr Asn Ile
1 5

<210> 129
<211> 81
<212> PRT
<213> Homo sapiens

<400> 129
Gln Asn Met Asn Asp Tyr Asn Ile Met Phe Tyr Leu Tyr Ser Ile Phe
1 5 10 15

Gln Val Leu Val Trp Leu Cys Gln Ala Lys His Leu Ser Gln Ile Ser

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Ala Arg Ser Ser Arg Arg Leu Trp Arg Leu Ser Leu Ile Thr Phe Pro
35 40 45

Pro Tyr Leu Ala Thr Ser Leu Ser His Gly Pro His Val Cys Leu Gln
50 55 60

Thr Leu Gly Tyr Glu Ser Cys Glu His Thr Asp Leu Cys Phe Leu His
65 70 75 80

Asp

<210> 130

<211> 51

<212> PRT

<213> Homo sapiens

<400> 130

Pro Ala Arg His Leu Trp Thr Pro Ser Pro Val Cys Lys Pro Ser Ile
1 5 10 15

Lys Pro His Val Ser Phe Ala Gly Ser Gly Ser Leu Trp Arg Leu Glu
20 25 30

Pro Tyr Ala Phe Pro Ile Glu Val Asn Arg Gly Ser Ala Gln His Trp
35 40 45

Val Pro Gly
50

<210> 131

<211> 29

<212> PRT

<213> Homo sapiens

<400> 131

Val-Cys Lys Pro Ser Ile Lys Pro His Val Ser Phe Ala Gly Ser Gly
1 5 10 15

Ser Leu Trp Arg Leu Glu Pro Tyr Ala Phe Pro Ile Glu
20 25

<210> 132

<211> 48

<212> PRT

<213> Homo sapiens

<400> 132

Met Gln Pro Cys Leu Phe Met Phe Val Leu Met Gly Ile Met Trp Ala
1 5 10 15

Thr Gly Ile Leu Pro Lys Ile Met Pro Ser Arg Lys Arg Cys Leu Ser
20 25 30

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Ile Asp Ile Pro Ala Ala Pro Gln Ala Gly Met Cys Leu Leu Ile Leu
 35 40 45

<210> 133
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 133
 Gln Phe Ser Phe Leu Ser Ala Lys Gly Leu His Trp Ala Leu Phe Val
 1 5 10 15
 Phe Phe Tyr Phe Leu Ser Thr Ala Cys Gln Arg Trp Ala Trp Gly Leu
 20 25 30

<210> 134
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 134
 Gln Phe Ser Phe Leu Ser Ala Lys Gly Leu His Trp Ala Leu Phe Val
 1 5 10 15
 Phe Phe Tyr Phe Leu Ser Thr Ala Cys Gln Arg Trp Ala Trp Gly Leu
 20 25 30
 Met Arg Thr Leu Ala Leu Leu Val Leu Leu Phe Cys Ser Cys Thr His
 35 40 45
 Ser Ser Met Gly Trp Gly Arg Gln Ala Trp Gly Val Ala Leu Gly Glu
 50 55 60
 Val Arg Ser Pro Pro Ala Gln Asp Thr Val Ala Lys Thr
 65 70 75

<210> 135
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 135
 His Glu Pro Gly Arg Cys Gly Pro Glu Asn Leu Ala Leu Gln Ala Thr
 1 5 10 15
 Gln Arg Gly Thr Arg Phe Ser Val Pro Met Cys Lys Ser Ser Arg Gln
 20 25 30
 Tyr Thr Tyr Thr Ser Val His Met Cys Gln Cys Ala Cys Glu Arg Val
 35 40 45

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Glu Trp Arg Gly Ser Leu Thr Pro Ala Arg Ala Leu His Asn His Leu
50 55 60

Thr Glu Gln Trp Phe Pro His Gly Phe Pro Phe Leu Ser Arg Phe Phe
65 70 75 80

Thr Tyr

<210> 136
<211> 24
<212> PRT
<213> Homo sapiens

<400> 136
Glu Asn Leu Ala Leu Gln Ala Thr Gln Arg Gly Thr Arg Phe Ser Val
1 5 10 15

Pro Met Cys Lys Ser Ser Arg Gln
20

<210> 137
<211> 26
<212> PRT
<213> Homo sapiens

<400> 137
Met Cys Gln Cys Ala Cys Glu Arg Val Glu Trp Arg Gly Ser Leu Thr
1 5 10 15

Pro Ala Arg Ala Leu His Asn His Leu Thr
20 25

<210> 138
<211> 12
<212> PRT
<213> Homo sapiens

<400> 138
Leu Arg Arg Ala Ser Cys Pro Ile Trp Ser Lys Asp
1 5 10

<210> 139
<211> 58
<212> PRT
<213> Homo sapiens

<400> 139
Leu Arg Arg Ala Ser Cys Pro Ile Trp Ser Lys Asp Gly Lys Thr Leu
1 5 10 15

Tyr Leu Pro Val Cys Leu Ser Phe Leu His Ser Pro Ala Ser Thr Phe
20 25 30

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74

Leu Pro Trp Asn Gln Gly Phe Leu Ser Pro Phe Ala Phe Ser Thr Leu
35 40 45

Gly Thr Pro Gly Ala Lys Gln Phe Ser Ile
50 55

<210> 140
<211> 166
<212> PRT
<213> Homo sapiens

<400> 140
Gly Thr Ser Thr Lys Leu Pro Tyr Cys Arg Glu Asn Val Cys Leu Ala
1 5 10 15

Tyr Gly Ser Glu Trp Ser Val Tyr Ala Val Gly Ser Gln Ala His Val
20 25 30

Ser Phe Leu Asp Pro Arg Gln Pro Ser Tyr Asn Val Lys Ser Val Cys
35 40 45

Ser Arg Glu Arg Gly Ser Gly Ile Arg Ser Val Ser Phe Tyr Glu His
50 55 60

Ile Ile Thr Val Gly Thr Gly Gln Gly Ser Leu Phe Tyr Asp Ile
65 70 75 80

Arg Ala Gln Arg Phe Leu Glu Glu Arg Leu Ser Ala Cys Tyr Gly Ser
85 90 95

Lys Pro Arg Leu Ala Gly Glu Asn Leu Lys Leu Thr Thr Gly Lys Gly
100 105 110

Trp Leu Asn His Asp Glu Thr Trp Arg Asn Tyr Phe Ser Asp Ile Asp
115 120 125

Phe Phe Pro Asn Ala Val Tyr Thr His Cys Tyr Asp Ser Ser Gly Thr
130 135 140

Lys-Leu Phe Val Ala Gly Gly Pro Leu Pro Ser Gly Leu His Gly Asn
145 150 155 160

Tyr Ala Gly Leu Trp Ser
165

<210> 141
<211> 22
<212> PRT
<213> Homo sapiens

<400> 141
Cys Arg Glu Asn Val Cys Leu Ala Tyr Gly Ser Glu Trp Ser Val Tyr
1 5 10 15

Ala Val Gly Ser Gln Ala
20

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<210> 142
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 142
 Pro Ser Tyr Asn Val Lys Ser Val Cys Ser Arg Glu Arg Gly Ser Gly
 1 5 10 15
 Ile Arg Ser Val Ser Phe Tyr Glu
 20

<210> 143
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 143
 Asp Ile Arg Ala Gln Arg Phe Leu Glu Glu Arg Leu Ser Ala Cys Tyr
 1 5 10 15
 Gly Ser Lys Pro Arg Leu Ala Gly Glu Asn Leu Lys Leu
 20 25

<210> 144
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 144
 Lys Leu Thr Thr Gly Lys Gly Trp Leu Asn His Asp Glu Thr Trp Arg
 1 5 10 15
 Asn Tyr Phe Ser Asp Ile Asp Phe Phe Pro
 20 25

<210> 145
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 145
 Tyr Asp Ser Ser Gly Thr Lys Leu Phe Val Ala Gly Gly Pro Leu Pro
 1 5 10 15
 Ser Gly Leu His Gly
 20

<210> 146
 <211> 280
 <212> PRT
 <213> Homo sapiens

<400> 146

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Lys Pro Gln Arg Phe Arg Arg Pro Phe Phe Phe Asn His Pro Lys Pro
1 5 10 15

Ser Ser His Pro Gly Leu His Ser Arg Pro Thr Leu His Ser His Pro
20 25 30

Ala Phe His Ser His Pro Glu Leu Gln Gln Pro Thr Gln Thr Ser Pro
35 40 45

Val Pro Leu Thr Pro Glu Ser Pro Leu Phe Gln Asn Phe Ser Gly Tyr
50 55 60

His Ile Gly Val Gly Arg Ala Asp Cys Thr Gly Gln Val Ala Asp Ile
65 70 75 80

Asn Leu Met Gly Tyr Gly Lys Ser Gly Gln Asn Ala Gln Gly Ile Leu
85 90 95

Thr Arg Leu Tyr Ser Arg Ala Phe Ile Met Ala Glu Pro Asp Gly Ser
100 105 110

Asn Arg Thr Val Phe Val Ser Ile Asp Ile Gly Met Val Ser Gln Arg
115 120 125

Leu Arg Leu Glu Val Leu Asn Arg Leu Gln Ser Lys Tyr Gly Ser Leu
130 135 140

Tyr Arg Arg Asp Asn Val Ile Leu Ser Gly Thr His Thr His Ser Gly
145 150 155 160

Pro Ala Gly Tyr Phe Gln Tyr Thr Val Phe Val Ile Ala Ser Glu Gly
165 170 175

Phe Ser Asn Gln Thr Phe Gln His Met Val Thr Gly Ile Leu Lys Ser
180 185 190

Ile Asp Ile Ala His Thr Asn Met Lys Pro Gly Lys Ile Phe Ile Asn
195 200 205

Lys Gly Asn Val Asp Gly Val Gln Ile Asn Arg Ser Pro Tyr Ser Tyr
210 215 220

Leu Gln Asn Pro Gln Ser Glu Arg Ala Arg Tyr Ser Ser Asn Thr Asp
225 230 235 240

Lys Glu Met Ile Val Leu Lys Met Val Asp Leu Asn Gly Asp Asp Leu
245 250 255

Gly Leu Ile Ser Phe Ser Phe Ser Lys Ser Ala Leu Gly Thr Tyr Tyr
260 265 270

Glu Pro Arg Asn Thr Ser Leu Glu
275 280

<210> 147
<211> 30
<212> PRT
<213> Homo sapiens

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<400> 147

Lys Pro Ser Ser His Pro Gly Leu His Ser Arg Pro Thr Leu His Ser
 1 5 10 15

His Pro Ala Phe His Ser His Pro Glu Leu Gln Gln Pro Thr
 20 25 30

<210> 148

<211> 26

<212> PRT

<213> Homo sapiens

<400> 148

Arg Ala Asp Cys Thr Gly Gln Val Ala Asp Ile Asn Leu Met Gly Tyr
 1 5 10 15

Gly Lys Ser Gly Gln Asn Ala Gln Gly Ile
 20 25

<210> 149

<211> 24

<212> PRT

<213> Homo sapiens

<400> 149

Arg Ala Phe Ile Met Ala Glu Pro Asp Gly Ser Asn Arg Thr Val Phe
 1 5 10 15

Val Ser Ile Asp Ile Gly Met Val
 20

<210> 150

<211> 27

<212> PRT

<213> Homo sapiens

<400> 150

Arg Leu Gln Ser Lys Tyr Gly Ser Leu Tyr Arg Arg Asp Asn Val Ile
 1 5 10 15

Leu Ser Gly Thr His Thr His Ser Gly Pro Ala
 20 25

<210> 151

<211> 23

<212> PRT

<213> Homo sapiens

<400> 151

Ala Ser Glu Gly Phe Ser Asn Gln Thr Phe Gln His Met Val Thr Gly
 1 5 10 15

Ile Leu Lys Ser Ile Asp Ile
 20

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